How to modify the KACISE Ultrasonic Sensor by RS485?

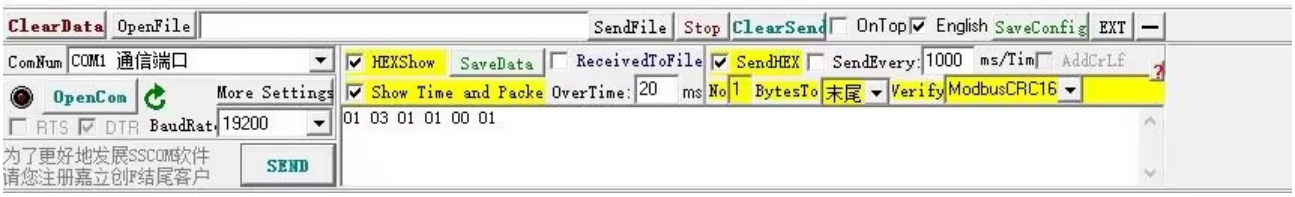
Taking the KUS550 sensor as an example, modify the upper and lower limits of 4-20mA.

Step 1: Connect the cable correctly as in the manual. Take the KUS550 4-20mA as an example:
- Red: Power supply
- Black: Ground
- Yellow: 4-20mA
- Blue: RS485A
- Green: RS485B

Step 2: Connect the RS485-to-USB module already connected to the sensor to the computer.

Step 3: Open the software SSCOM (Please click the English button to prevent garbled characters).

Step 4: Select the serial port where the RS485-to-USB module is located, choose the baud rate of the sensor, check Hex display and Hex send, and select Modbus CRC 16 with checksum, as shown below.



Step 5: Read the register parameters (for example, I need to read the upper and lower limits of 4 - 20mA). (In the distance mode, the value corresponding to 4mA is less than that corresponding to 20mA. In the level mode, the situation is the opposite. In this case, the sensor is in the distance mode.)

First, for the value corresponding to 4mA:
Edit and send the command: 01 03 00 24 00 01 C4 01
Example of received data: 01 03 02 07 D0 BB E8
The received data value is 07D0. Converting it to decimal gives 2000, which corresponds to a distance of 200mm.

Then, for the value corresponding to 20mA:
Edit and send the command: 01 03 00 25 00 01 95 C1
Example of received data: 01 03 02 61 A8 90 6A
The received data value is 61A8. Converting it to decimal gives 25000, which corresponds to a distance of 2500mm.

Step 6: Modify the values corresponding to 4 - 20mA (for example, I need to modify the value corresponding to 4mA to 500mm and the value corresponding to 20mA to 2000mm).

First, to modify the value corresponding to 4mA:
Edit and send the command: 01 06 00 24 13 88 C4 97

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Example of received data: 01 06 00 24 13 88 C4 97
The modified value is 1388. Converting it to decimal gives 5000, which corresponds to a distance of 500mm.

Then, to modify the value corresponding to 20mA:
Edit and send the command: 01 06 00 25 4E 20 AC 79
Example of received data: 01 06 00 25 4E 20 AC 79
The modified value is 4E20. Converting it to decimal gives 20000, which corresponds to a distance of 2000mm.

Step 7:** Restart the sensor. Power off the sensor and then power it on again. The modified values will take effect.

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